



Waste Problems

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Process Redesign

Issues

- ▶ Semiconductor / Electronics Fabrication
- ▶ Chemical/Pharmaceutical Manufacturing
- ▶ Coal-based Energy Generation
- ▶ Construction

Solutions

- ▶ New synthesis methods
- ▶ Different raw materials
- ▶ Friendlier power generation



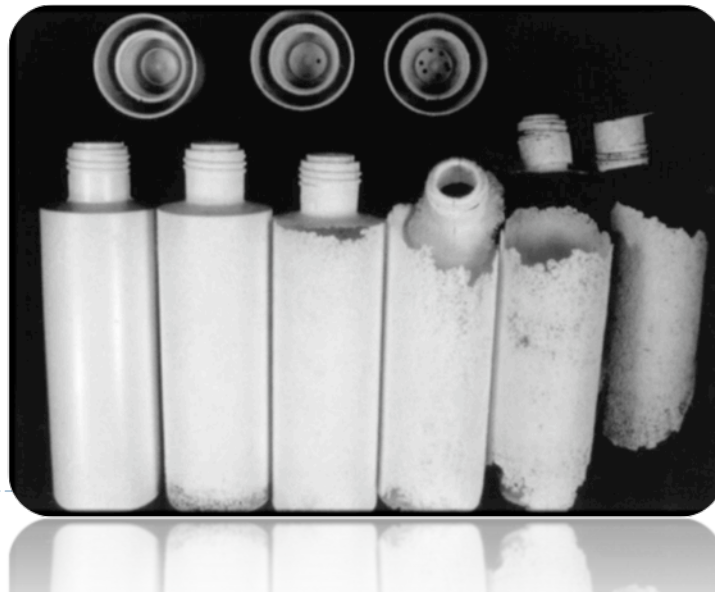
Product Redesign

Issues

- ▶ Non-degradable plastics / compounds
- ▶ Toxic chemicals / pesticides / emissions

Solutions

- ▶ Development of newer friendlier compounds
- ▶ Chemical removal / cleanup systems



Mitigating Existing Trash

Issues

- ▶ Landfill methane generation
 - ▶ Oil Spills
 - ▶ Ocean Trash
 - ▶ Space Trash
 - ▶ Organic Waste
 - ▶ General Littering
 - ▶ Nuclear Waste
 - ▶ Chemical Pollutants (fertilizers, runoff, etc.)
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Solutions

- ▶ Waste conversion into usable products / energy
- ▶ Waste tagging for easy cleanup
- ▶ Waste breakdown



Trash Disposal

Issues

- ▶ High cost of recycling / waste removal
- ▶ Recycling sorting / confusion
- ▶ Certain non-disposable items
- ▶ Containment

Solutions

- ▶ Recycling awareness
- ▶ Less wasteful packaging / movement away from unfriendly products
- ▶ New and easier recycling methods

